

Claims

- [c1] WHAT IS CLAIMED IS:
1. A check valve comprising a closing element configured to close at least one bore, wherein the closing element (6) is comprised of a strip (10) formed to a ring.
 - [c2] 2. The check valve according to claim 1, wherein the strip (10) is comprised of spring steel.
 - [c3] 3. The check valve according to claim 2, wherein the strip (10) has a substantially rectangular contour.
 - [c4] 4. The check valve according to claim 1, wherein the strip (10) has ends (15, 16) spaced apart from one another in a mounted position of the strip.
 - [c5] 5. The check valve according to claim 1, wherein the strip (10) has ends (15, 16) overlapping one another in a mounted position of the strip (10).
 - [c6] 6. The check valve according to claim 1, wherein the strip (10) has at least one end (15) which is bent radially inwardly.
 - [c7] 7. The check valve according to claim 6, wherein the strip (10) has a diameter which is elastically widenable or reducible.
 - [c8] 8. The check valve according to claim 1, wherein the strip (10) has at least one closure (11).
 - [c9] 9. The check valve according to claim 8, wherein the at least one closure (11) is separated from the strip by a gap (14).
 - [c10] 10. The check valve according to claim 9, wherein the at least one closure (11) comprises a closing part (13) and a spring stay (12) connecting the closing part (13) to material of the strip (10).
 - [c11] 11. The check valve according to claim 10, wherein the spring stay (12) is partially separated from the strip by the gap (14).
 - [c12] 12. The check valve according to claim 10, wherein the closing part (13) and the

spring stay (12) are arranged symmetrically relative to a longitudinal center plane of the strip (10).

- [c13] 13. The check valve according to claim 1, wherein the strip (10) has longitudinal sides (19, 20) and wherein at least one of the longitudinal sides (19, 20) has at least one projection (21).

[c14] 14. A valve arrangement comprising at least one check valve according to claim 1, wherein the valve arrangement comprises a valve member having an annular channel (5, 7) and at least one bore (2, 9) opening into the annular channel (5, 7), wherein the strip (10) of the at least one check valve is arranged in the annular channel (5, 7).

[c15] 15. The valve arrangement according to claim 14, wherein the annular channel (5, 7) is arranged in a valve sleeve (1) of the valve member.

[c16] 16. The valve arrangement according to claim 15, wherein the strip (10) is positioned in the annular channel (5, 7) and wherein the annular channel (5, 7) has a width greater than a width of the strip (10).

[c17] 17. The valve arrangement according to claim 15, wherein the annular channel (5, 7) is arranged in an inner wall of the valve sleeve (1).

[c18] 18. The valve arrangement according to claim 15, wherein the annular channel (5, 7) is arranged in an outer wall of the valve sleeve (1), wherein the valve member comprises an auxiliary sleeve (8) surrounding the valve sleeve (1) and closing the annular channel (5, 7) radially outwardly.

[c19] 19. The valve arrangement according to claim 18, wherein the strip (10) rests with elastic pretension against the valve sleeve (1) or the auxiliary sleeve (8).

[c20] 20. The valve arrangement according to claim 15, wherein the strip (10) rests with elastic pretension against the valve sleeve (1).

[c21] 21. The valve arrangement according to claim 14, wherein the strip (10) has an initial position in which initial position the strip (10) is floatingly arranged in the annular channel (5, 7).

[c22] 22. The valve arrangement according to claim 14, wherein the strip (10) is secured against rotation relative to the annular channel (5, 7).